

invention to provide additional filtering action on transient noise peaks which heretofore have not been dissipated with state-of-the-art inductors used in existing filters.

The apparatus and method of the present invention, when used in an appropriate circuit, will also allow high frequency band pass to facilitate improved diode action by means of current draw required for large signals. This allows the power supplies of Audio and Video equipment to work more efficiently.

The above and still further objects, features and advantages of the present invention will become apparent upon consideration of the following detailed description of a specific embodiment thereof, particularly when taken in conjunction with the accompanying drawings, wherein like reference numerals in the various figures are utilized to designate like components.

#### **BRIEF DESCRIPTION OF THE DRAWINGS**

→ Fig 1 illustrates a closed loop of magnetic flux of a prior art.

Figs 2 and 3 illustrate varying phase angle within the audio response band of a crossover network as a function of the roll-off or roll-up slope, (e.g., 1<sup>st</sup>, 2<sup>nd</sup> or 3<sup>rd</sup> order slope), in accordance with the method of the present invention.

Figs 4a-4d illustrate two new symbols; Fig 4c illustrates a proposed symbol for an iron core component and Fig 4d illustrates a proposed symbol for an air core component; equivalent circuits are illustrated in two formats – Fig 4a illustrates discrete components showing a primary and secondary coil with their respective impedances and Fig 4b illustrates a combined equivalent circuit, in accordance with the method of the present invention.